

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Couplings for LNG/LPG**

with type designation(s)

Cryogenic Break-away Couplings (CBC) and Powered Emergency Release Couplings (PERC)

Issued to

Mann Teknik AB
MARIESTAD, Sweden

is found to comply with

ISO 16904:2016 Petroleum and natural gas industries – Design and testing of LNG marine transfer arms for conventional onshore terminals**EN 1474-3:2008 Installation and equipment for liquefied natural gas – Design and testing of marine transfer systems – Part 3: Offshore transfer systems****Application :****Max. working temp.:** -196°C to 65°C**Max. working press.:** See certificate**Sizes:** See certificateIssued at **Høvik** on **2018-03-15**This Certificate is valid until **2022-11-06**.DNV GL local station: **Gothenburg**Approval Engineer: **Mehdi Rowshan**for **DNV GL**

Digitally Signed By: Marveng, Marianne Spæren

Location: DNV GL Høvik, Norway

**Marianne Spæren Marveng**
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

